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(11) **EP 0 745 933 A3**

(12) ⁴

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
24.01.2001 Bulletin 2001/04

(51) Int Cl.7: G06F 9/30, G06F 9/38

(43) Date of publication A2:
04.12.1996 Bulletin 1996/49

(21) Application number: 96480056.9

(22) Date of filing: 07.05.1996

(84) Designated Contracting States:
DE FR GB

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(30) Priority: 02.06.1995 US 459490

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(54) Multiple port register file with interleaved write ports

(57) A high speed register file is provided for use with Very Long Word Instruction (VLIW) and N-way superscaler processors. The high speed register file includes a selected number of copies of a general purpose register (GPR) building block. The GPR building block

includes at least two interleaved sub-banks of registers. Each of the sub-banks includes a number N of write ports and a number M of read ports. The sub-banks are interleaved by write ports and have non-interleaved read ports.

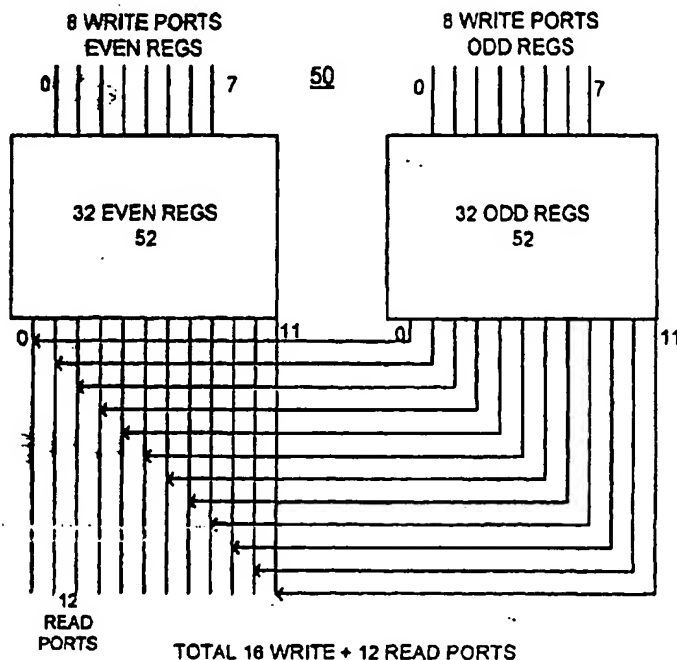


FIG.1

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EUROPEAN SEARCH REPORT

Application Number
EP 96 48 0056

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A	US 5 392 411 A (OZAKI SHINJI) 21 February 1995 (1995-02-21) * column 4, line 53 - column 7, line 46; figures 2,3 * ---	1,2,5,7	
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			TECHNICAL FIELDS SEARCHED (Int.CI.6)
			G06F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30 November 2000	Examiner Daskalakis, T
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 (3.82 (P04C01))

ANNEX TO THE EUROPEAN SEARCH REPORT
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30-11-2000

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